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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/661,273	09/13/2000	Bradley Cain	2204/A50	8324
2101	7590	12/02/2003	EXAMINER	
BROMBERG & SUNSTEIN LLP 125 SUMMER STREET BOSTON, MA 02110-1618			NGUYEN, THU HA T	
		ART UNIT	PAPER NUMBER	
		2155		

DATE MAILED: 12/02/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/661,273	CAIN ET AL.
Examiner	Art Unit	
Thu Ha T. Nguyen	2155	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 13 September 2000.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-55 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-55 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) The translation of the foreign language provisional application has been received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4 .
4) Interview Summary (PTO-413) Paper No(s). ____ .
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

DETAILED ACTION

1. Claims 1-55 are presented for examination.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-4, 8, 10-17, 21, 23-27, 31, 33-37, 41, 43-47, 51, and 53-55 are rejected under 35 U.S.C. § 103 (a) as being unpatentable over **Garrity et al.**, (hereinafter Garrity) U.S. Patent No. **6,230,205**.

4. As to claim 1, **Garrity** teaches the invention substantially as claimed, including an access control method for an internet television system, the access control method comprising:

distributing access control information from a distribution device to an access device for use by the access device in authenticating a subsequent request by a host

device to join a television channel multicast group (abstract, figure 2, col. 3 lines 33-col. 6 lines 49);

receiving, by the access device, the subsequent request by the host device to join the television channel multicast group (figure 7, col. 8 lines 30-64);

determining, by the access device, whether the host device is authorized to join the television channel multicast group based upon the access control information distributed from the distribution device (abstract, figures 6-7, col. 8 lines 30-col. 11 lines 58); and

admitting, by the access device, the host device to the television channel multicast group if and only if the host device is determined to be authorized to join the television channel multicast group (abstract, figures 6-8, col. 8 lines 30-col. 11lines 58). It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention was made that **Garrity** implicitly discloses the operation center (136) (figures 1-2, 4) receives distributed information from content providers (102, 104, 106) and the OC (136) subsequent receive a request from content consumer for broadcast/multicast distributed information. The OC or server (136) (figures 1-2, 4) authenticates the content consumer based on the profile that is provided by the content provider to server and is stored in database (414) equivalent to the process of the access device receives the subsequent request by the host device to join the multicast group and determines by the access device whether the host device is authorized to join the multicast group based upon the access control information as disclosed in the applicant's specification. A person of ordinary skill in the art would have recognized that

Garrity performs the same function in substantially the same way to reach substantially the same result.

5. As to claim 2, **Garrity** teaches the invention substantially as claimed, wherein distributing the access control information from the distribution device to the access device comprises: pushing the access control information from the distribution device to the access control device using a predetermined push mechanism (figure 2, col. 3 lines 33-col. 6 lines 67). It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention was made that **Garrity** implicitly discloses the content provider unicast distributed information to the OC or server (figures 1-2) that equivalent to the step of pushing the access control information to the access device as disclosed in the applicant's specification. A person of ordinary skill in the art would have recognized that **Garrity** performs the same function in substantially the same way to reach substantially the same result.

6. As to claim 3, **Garrity** teaches the invention substantially as claimed, wherein the predetermined push mechanism comprises a reliable multicast mechanism (figures 1-2, col. 3 lines 33-col. 4 lines 32).

7. As to claim 4, **Garrity** teaches the invention substantially as claimed, wherein pushing the access control information from the distribution device to the access control device using the predetermined push mechanism comprises: joining a

predetermined multicast group by the access device; sending the access control information to the predetermined multicast group by the distribution device using the reliable multicast receiving the access control information by the access device from the multicast group using the reliable multicast mechanism (abstract, figure 1-2, 4, 7, col. 3 lines 33-col. 6 lines 49, col. 7 lines 33-col. 8 lines 64).

8. As to claim 8, **Garrity** teaches the invention substantially as claimed, wherein the predetermined push mechanism comprises a management mechanism (abstract, col. 2 lines 12-47).

9. As to claim 10, **Garrity** teaches the invention substantially as claimed, wherein the management mechanism comprises a Command Line Interface (CLI) (figure 7, col. 10 lines 29-col. 56).

10. As to claim 11, **Garrity** teaches the invention substantially as claimed, wherein pushing the access control information from the distribution device to the access control device using a predetermined push mechanism comprises: sending the access control information from the distribution device to the access device in the form of management information using the management mechanism (abstract, col. 2 lines 12-47).

11. As to claim 12, **Garrity** teaches the invention substantially as claimed, wherein determining whether the host device is authorized to join the television channel multicast group comprises: authenticating the host device based upon the access control information (abstract, figure 1-2, 4, 7col. 3 lines 33-col. 3 lines 33-col. 6 lines 49, col. 7 lines 33-col. 8 lines 64).

12. As to claim 13, **Garrity** teaches the invention substantially as claimed, wherein admitting the host device to the television channel multicast group comprises: joining the television channel multicast group by the access device using a predetermined multicast routing protocol (abstract, figures 6-8, col. 8 lines 30-col. 11lines 58).

13. As to claim 14, **Garrity** teaches the invention substantially as claimed, wherein the predetermined multicast routing protocol (abstract, figures 1-2, 4, col. 3 lines 33-col. 5 lines 37, col. 6 lines 4-col. 7 lines 65). **Garrity** does not explicitly teach comprises a Protocol Independent Multicast (PIM) multicast routing protocol. However, PIM is well known in the art and it is deemed to be obvious because **Garrity** teaches the multicast function in the invention, hence it is obvious to use the PIM multicast routing protocol. It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention was made to have the use of PIM multicast protocol in the system of **Garrity** because it would have an efficient network management system that

multicasts or distributes content resource to selected group or user who is authorized to join the multicast group.

14. As to claim 15, **Garrity** teaches the invention substantially as claimed, including an apparatus for distributing access control information in an internet television system, the apparatus comprising:

 maintenance logic operably coupled to maintain access control information (abstract, figures 1-2, 4); and

 distribution logic operably coupled to distribute the access control information to at least one access device using a predetermined push mechanism (abstract, figure 2, col. 3 lines 33-col. 6 lines 49). It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention was made that **Garrity** implicitly discloses the content provider unicast distributed information to the OC or server (figures 1-2) based on pre-schedule that equivalent to the step of pushing the access control information to the access device based on predetermined push mechanism as disclosed in the applicant's specification. A person of ordinary skill in the art would have recognized that **Garrity** performs the same function in substantially the same way to reach substantially the same result.

15. As to claim 25, **Garrity** teaches the invention substantially as claimed, including a computer program for controlling a computer system, the computer program comprising:

maintenance logic programmed to maintain access control information (abstract, figures 1-2, 4); and

distribution logic programmed to distribute the access control information to at least one access device using a predetermined push mechanism (abstract, figure 2, col. 3 lines 33-col. 6 lines 49). It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention was made that **Garrity** implicitly discloses the content provider unicast distributed information to the OC or server (figures 1-2) based on pre-schedule that equivalent to the step of pushing the access control information to the access device based on predetermined push mechanism as disclosed in the applicant's specification. A person of ordinary skill in the art would have recognized that **Garrity** performs the same function in substantially the same way to reach substantially the same result.

16. As to claim 35, **Garrity** teaches the invention substantially as claimed, including an apparatus for providing receiver access control in an internet television system, the apparatus comprising:

distribution logic operably coupled to receive access control information from a distribution device using a predetermined push mechanism (abstract, figure 2, col. 3 lines 33-col. 6 lines 49);

host interface logic operably coupled to receive a request from a host device to join a television channel multicast group (figure 7, col. 8 lines 30-64); and

access control logic operably coupled to determine whether the host device is authorized to join the television channel multicast group based upon the access control information (abstract, figures 6-7, col. 8 lines 30-col. 11 lines 58).

It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention was made that **Garrity** implicitly discloses the content provider unicast distributed information to the OC or server (abstract, figures 1-2) based on pre-schedule. The OC or server (136) (figures 1-2, 4) authenticates the content consumer based on the profile that is provided by the content provider to server and is stored in database (414) equivalent to the process of pushing the access control information to the access device based on predetermined push mechanism. The access device receives request by the host device to join the multicast group and determines whether the host device is authorized to join the multicast group based upon the access control information as disclosed in the applicant's specification. A person of ordinary skill in the art would have recognized that **Garrity** performs the same function in substantially the same way to reach substantially the same result.

17. As to claim 45, **Garrity** teaches the invention substantially as claimed, including a computer program for controlling a computer system, the computer program comprising:

distribution logic programmed to receive access control information from a distribution device using a predetermined push mechanism (abstract, figure 2, col. 3 lines 33-col. 6 lines 49);

host interface logic programmed to receive a request from a host device to join a television channel multicast group (abstract, figures 6-7, col. 8 lines 30-col. 11 lines 58); and

access control logic programmed to determine whether the host device is authorized to join the television channel multicast group based upon the access control information (abstract, figures 6-7, col. 8 lines 30-col. 11 lines 58).

It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention was made that **Garrity** implicitly discloses the content provider unicast distributed information to the OC or server (abstract, figures 1-2) based on pre-schedule. The OC or server (136) (figures 1-2, 4) authenticates the content consumer based on the profile that is provided by the content provider to server and is stored in database (414) equivalent to the process of pushing the access control information to the access device based on predetermined push mechanism. The access device receives request by the host device to join the multicast group and determines whether the host device is authorized to join the multicast group based upon the access control information as disclosed in the applicant's specification. A person of ordinary skill in the art would have recognized that **Garrity** performs the same function in substantially the same way to reach substantially the same result.

18. As to claim 55, **Garrity** teaches the invention substantially as claimed, including an internet television system comprising a distribution device in communication with at least one access device over a communication network, wherein

the distribution device uses a predetermined push mechanism to distribute access control information to the at least one access device, and wherein the at least one access device uses the access control information to control access to at least one television channel multicast group (abstract, figures 2, 6-7, col. 3 lines 33-col. 6 lines 49, col. 8 lines 30-col. 11 lines 58). It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention was made that **Garrity** implicitly discloses the content provider unicast distributed information to the OC or server (abstract, figures 1-2) based on pre-schedule. The OC or server (136) (figures 1-2, 4) authenticates the content consumer based on the profile that is provided by the content provider to server and is stored in database (414) equivalent to the process of pushing the access control information to the access device based on predetermined push mechanism. The access device receives request by the host device to join the multicast group and determines whether the host device is authorized to join the multicast group based upon the access control information as disclosed in the applicant's specification. A person of ordinary skill in the art would have recognized that **Garrity** performs the same function in substantially the same way to reach substantially the same result.

19. As to claim 16-17, 21, 23-24, 26-27, 31, 33-34, 36-37, 41, 43-44, 46-47, 51, and 53-54, they are system and computer program claims directed to distributing access control information in an internet television of method claims 3-4, 8, and 10-11. Claims 16-17, 21, 23-24, 26-27, 31, 33-34, 36-37, 41, 43-44, 46-47, 51, and 53-54 have

similar limitations to claims 3-4, 8, and 10-11; therefore, they are rejected under the same rationale.

20. Claims 5-7, 9, 18-20, 22, 28-30, 32, 38-40, 42, 48-50 and 52 are rejected under 35 U.S.C. § 103 (a) as being unpatentable over **Garrity** U.S. Patent No. 6,230,205, in view of **Dobbins et al.**, (hereinafter Dobbins) U.S. Publication No. US 2002/0066033.

21. As to claim 5, **Garrity** teaches the invention substantially as claimed, wherein the predetermined push mechanism (abstract, figure 1-2, 4, 7, col. 3 lines 33-col. 6 lines 49, col. 7 lines 33-col. 8 lines 64); however, **Garrity** does not explicitly teach a policy service. **Dobbins** teaches a policy service (abstract, paragraphs 0009-0010, 0021). It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention was made that **Garrity** suggests the process of predetermined push mechanism to modify the process of predetermined push mechanism comprises a policy service by **Dobbins**. One of ordinary skill in the art would have been motivated to modify **Garrity** in view of **Dobbins** because it would have an efficient communications system that can manage and distribute content resources to users based on user's profile or, in other words, based on access control information by using policy service rule.

22. As to claim 6, **Garrity** does not explicitly teach the invention as claimed; however, **Dobbins** teaches wherein the policy service comprises a Common Open Policy Service (COPS) (abstract, paragraph 0021). It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention was made to combine the teachings of **Garrity and Dobbins** to have the same motivation as set forth in claim 5, *supra*.

23. As to claim 7, **Garrity** teaches the invention substantially as claimed, wherein pushing the access control information from the distribution device to the access control device using a predetermined push mechanism comprises: sending the access control information from the distribution device to the access device (abstract, figure 2, col. 3 lines 33-col. 6 lines 49). However, **Garrity** does not explicitly teach the access control information is sent in the form of policy information using the policy service. **Dobbins** teaches the access control information is sent in the form of policy information using the policy service (abstract, paragraphs 0009-0019, 0021). It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention was made to combine the teachings of **Garrity and Dobbins** to have the same motivation as set forth in claim 5, *supra*.

24. As to claim 9, **Garrity** does not explicitly teach the invention as claimed; however, **Dobbins** teaches wherein the management mechanism comprises a Simple Network Management Protocol (SNMP) (figures 1, 11, paragraphs 0009-0010, 0020-

0021, 0173). It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention was made to combine the teachings of **Garrity and Dobbins** to have a SNMP in the management mechanism because it would have an efficient network management to managing complex network and content resources.

25. As to claim 18-20, 22, 28-30, 32, 38-40, 42, 48-50, and 52, they are system and computer program claims directed to distributing access control information in an internet television of method claims 5-7, and 9. Claims 18-20, 22, 28-30, 32, 38-40, 42, 48-50, and 52 have similar limitations to claims 5-7, and 9; therefore, they are rejected under the same rationale.

Conclusion

26. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

27. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu Ha Nguyen, whose telephone number is (703) 305-7447. The examiner can normally be reached Monday through Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain T. Alam, can be reached at (703) 308-6662.

Any inquiry of a general nature of relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-9600.

The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications.

Thu Ha Nguyen

November 24, 2003

Hosain Alam
HOSAIN ALAM
SUPERVISORY PATENT EXAMINER